

Comparing the Therapeutic Effect of Clotrimazole 1% Local Cream and Terbinafine Local Cream in Treating of Patients Given to Tinea Corporis and Tinea Cruris

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Background & Objectives: Tinea corporis is dermatophytosis infection of skin without hair and Tinea cruris, is in fact a type of Tinea corporis. The usual treatment of this two disease, involves the topical application of azoles and allylamines. this study attempts to identify drug that has the most cost- benefit efficacy in between two topical creams of Terbinafine 1% and Clotrimazole 1%.

Methods: Afterward that with prepared smear with positive KOH, dermatophytosis of 100 patients with suspicious to Tinea corporis and 50 patients with suspicious to Tinea cruris referred to the Kashan reference laboratory was determined, a portion of culture on SCC medium, is prescribed one of two drugs of terbinafine 1% or clotrimazole 1% local cream, randomly and single blind, twice daily for 2 weeks and providing of requirement 4 weeks; after than 2 and 4 weeks treatment, result of improvement was checked of clinical and laboratory (smear and culture) aspect.

Results: In this study, cure rate of Terbinafine to compared with clotrimazole in treatment of tinea corporis and tinea cruris, after 2 weeks treatment, was respectively, 69.3% versus 77.3% with $P=0.505$. and after 4 weeks treatment (providing of requirement), was respectively, 78.3% versus 70.6% with $P=0.849$; Also cure rate of Terbinafine to compared with clotrimazole in treatment of tinea corporis, after 2 weeks treatment, was respectively, 64% versus 76% with $P=0.432$. and after 4 weeks treatment (providing of requirement), was respectively, 72.2% versus 58.3% with $P=0.837$; Also cure rate of Terbinafine as compared to clotrimazole in treatment of tinea cruris, after 2 weeks treatment, per two groups of therapeutic, was 80% with $P=N.S.$ and after 4 weeks treatment (providing of requirement), per two groups of therapeutic, was 100% with $P=N.S.$ In this study, terbinafine and clotrimazole were significantly effective in treatment of *Trichophyton mentagrophytes*, *Trichophyton verrucosum*, *Trichophyton rubrum* and *Epidermophyton floccosum* with statistical aspect ($P<0.05$) but alone terbinafine were significantly effective in treatment of *Trichophyton rubrum* and *Microsporum canis* with statistical aspect ($P<0.03$). In sum, among of therapeutic groups is not observed no differentiation in age, sex, occupation, duration of sickness, history of contact with the animal, type of lesion, clinical symptoms, diameter, number and type of fungus ($P<0.05$).

Conclusion: Since there was no statistically significant difference in cure rate, lack of side effect due to two drugs of terbinafine and clotrimazole and more expensive of terbinafine than clotrimazole however clotrimazole can be spotted as a good option in treatment of tinea corporis and or cruris, although prescription of type and form of medication has dependent to patient's acceptance and tolerance but no physical and mycological features.

Keywords: Tinea Corporis; Tinea Cruris; Terbinafine 1% Local Cream; Clotrimazole 1% Local Cream